

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/549,603	08/21/2006	Brian E. Jones	GC797-2-US	6075
Victoria L Bo	7590 05/02/200	ָס ^י	EXAM	INER
Genencor International Inc			CHOWDHURY, IQBAL HOSSAIN	
	925 Page Mill Road Palo Alto, CA 94304-1013		ART UNIT	PAPER NUMBER
1 4.0 1.110, 0.12 1.00 1.1010			1652	
•			MAIL DATE	DELIVERY MODE
			05/02/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)		
	10/549,603	JONES ET AL.		
Office Action Summary	Examiner	Art Unit		
	Iqbal H. Chowdhury, Ph.D.	1652		
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timulated will expire SIX (6) MONTHS from a cause the application to become ABANDONE!	I. ely filed the mailing date of this communication. O (35 U.S.C. § 133).		
Status	•			
1) Responsive to communication(s) filed on 2a) This action is FINAL. 2b) This 3) Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro	-		
Disposition of Claims				
4) Claim(s) 1-34 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) 1-34 are subject to restriction and/or expressions.	vn from consideration.			
Application Papers	•			
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	epted or b) objected to by the Eddrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite		

DETAILED ACTION

Election/Restrictions

This application is a 371 of PCT/US04/13257.

Instant application comprises two claims numbered 33. Therefore, the Examiner will read second claim number 33 as claim 34.

Claims 1-34 are currently pending.

1. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions, which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group, I claim(s) 1-14, 17-20 and 22, drawn to an isolated polynucleotide encoding a polypeptide mHKCel cellulase, host cell and process for producing polypeptide.

Group, II claim(s) 22, drawn to a recombinant host cell comprising a deletion or insertion or other alteration in said mHKCel gene.

Group, III claim(s) 15-16, 21, 25-28 and 29, drawn to isolated polypeptide mhkcel cellulase, detergent composition and feed additive.

Group, IV claim(s) 3, 23-24, drawn to an antisense oligonucleotide complementary to a messenger RNA that encodes an mhkcel cellulase.

Group, V claim(s) 30, drawn to a method of treating wood pulp.

Group, VI claims 31-32, drawn to a method of converting a biomass to sugar.

Group, VII claim(s) 33, drawn to a method of producing ethanol.

Application/Control Number: 10/549,603

Art Unit: 1652

Group, VIII claim(s) 34, drawn to a method of identifying novel enzymes.

- 2. The inventions listed as Groups I VIII do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: The polynucleotide encoding a polypeptide cellulase of Group I, polypeptide cellulase of Group III, antisense oligonucleotide complementary of mRNA of said cellulase of Group IV, and recombinant cell of Group II are each unrelated and chemically distinct entities. The only shared technical feature of these groups is that they all relate to polynucleotide encoding polypeptide or polypeptide cellulase of SEQ ID NO: 3. However, this shared technical feature is not a "special technical feature" as defined by PCT Rule 13.2 as it does not define a contribution over the art. Schulein et al. (US Patent 6268197) teach a protein, which is 90% identical to SEQ ID NO: 3. Thus, a polypeptide cellulase does not make contribution over the prior art and lacks unity of invention.
- 3. The recombinant cell of Group II does not share any "special technical feature" with Group III as the polypeptide of Group III is neither made nor used by the recombinant cell of Group II.
- 4. The antisense oligonucleotide of Group IV does not share any "special technical feature" with Group III as the polypeptide of Group IIII is neither made nor used by the antisense oligonucleotide of Group IV.
- 5. A method of treating wood pulp of Group V does not share any "special technical feature" with Group I as the polynucleotides of Group I are neither made nor used by the method of treating wood pulp of Group V.

Application/Control Number: 10/549,603

Art Unit: 1652

- 6. A method of converting biomass to sugar of Group VI does not share any "special technical feature" with Group I as the polynucleotides of Group I are neither made nor used by the method of treating wood pulp of Group VI.
- 7. A method of identifying novel enzymes of Group VIII does not share any "special technical feature" with Group III as the polypeptide of Group III is neither made nor used by the method of Group VIII.
- 8. The methods of Groups V-VIII do not have unity of invention with each other as each methods comprises unrelated steps, use different products and produce different effects.

9.

37 CFR 1.475 does not provide for multiple products and/or methods within a single application. Therefore, inventions of Group I – IVIII lack unity of invention.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and a product claim is subsequently found allowable, withdrawn process claims that depend from or otherwise include all the limitations of the allowable product claim will be rejoined in accordance with the provisions of MPEP § 821.04. Process claims that depend from or otherwise include all the limitations of the patentable product will be entered as a matter of right if the amendment is presented prior to final rejection or allowance, whichever is earlier. Amendments submitted after final rejection

are governed by 37 CFR 1.116; amendments submitted after allowance are governed by 37 CFR 1.312.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103, and 112. Until an elected product claim is found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowed product claim will not be rejoined. See "Guidance on Treatment of Product and Process Claims in light of In re Ochiai, In re Brouwer and 35 U.S.C. § 103(b)," 1184 O.G. 86 (March 26, 1996). Additionally, in order to retain the right to rejoinder in accordance with the above policy, Applicant is advised that the process claims should be amended during prosecution either to maintain dependency on the product claims or to otherwise include the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Igbal Chowdhury whose telephone number is 571-272-8137. The examiner can normally be reached on 9:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ponnathapu Achutamurthy can be reached on 703-272-0928. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 10/549,603

Art Unit: 1652

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Iqbal Chowdhury, PhD, Patent Examiner Art Unit 1652 (Recombinant Enzymes) US Patent and Trademark Office Rm. REM 2B69, Mail Box. 2C70 Ph. (571)-272-8137, Fax. (571)-273-8137

IC

RESECCA E. PROUTY
PRIMARY EXAMINER